

News Portal

TA Name: Walaa Alkady

Team ID: 62

Team Members:

20201700882 – SC

- ميرنا عبدالله عبدالسلام عبدالقادر

20201700863 – SC

- منة الله أحمد علي حسن

20201700561– SC

- فادي عصام عبدالهادي محمد

20201700032– SC

- احمد حسام الدين عرفه حسن

20201700556– SC

- عمرو سامي محمد عبدالسلام

20201700066– CS

- احمد مجدي عبدالصادق عيفيفي

20201700035– (No DEP)

- احمد خالد حامد امام

Table of content:

1.0. Introduction

1.1. Purpose.

1.2. The functionalities provided by the project.

1.3. Business objectives

2.0. user requirements

2.1. User Authentication.

2.2. Article Navigation.

2.3. Article Display.

2.4. Article Interactivity.

2.5. Subscription.

2.6. Author Management.

2.7. User Profile.

2.8. Admin Management.

3.0. functional requirements

3.1. Filter article by category.

3.2. Add to favorites.

3.3. Share specific article.

3.4. Publish new article.

3.5. Manage user and author.

3.6. Manage articles.

3.7. Subscribe article.

4.0. Non-functional requirements

4.1. Performance.

4.2. Security.

4.3. Reliability.

4.4. Usability.

4.5. Compatibility.

4.6. Scalability.

5.0. Use Case Diagram.

6.0. Sequence Diagram.

1. Introduction

1.1. Purpose.

The purpose of our News Portal project is to create a digital space where people can access the latest news stories and updates in various categories, such as politics, sports, entertainment, health, and technology. We want to offer a reliable source of information that is easily accessible and customizable for users.

1.2. Functionalities Provided by the project.

- Browse articles by category.
- Search for articles by keyword
- Create an account and log in as a registered user.
- Add articles to a favorite list.
- Share articles on different social media platforms.
- Submit articles for publication (authors only)
- Approve or deny article submissions (admin only)
- Manage user accounts and author applications (admin only)

- Subscribe to a weekly or daily news digest via email.

1.3. Business Objective.

- To increase traffic and user engagement on the News Portal site, which will generate revenue through advertising and sponsorship opportunities.
- To create a compelling user experience that engages and informs users and encourages them to return to the site for their news needs.
- To stay competitive in the fast-paced news industry by providing innovative features and functionality that set the News Portal apart from other news websites.

2. User requirements.

2.1. User Authentication.

- Users should be able to create an account to access premium content and personalized features.
- Users should be able to log in to their account using their email address and password and change password any time.

2.2. Article Navigation.

- Users should be able to easily navigate to different articles based on category, author, and popularity.

- Users should be able to search for articles using keywords and filters.

2.3. Article Display.

- Articles should be displayed in an easy-to-read format with clear headings, images, and multimedia content.
- Users should be able to access related articles and recommended reading based on their reading history.

2.4. Article Interactivity.

- Users should be able to interact with articles by commenting, rating, and sharing on social media platforms.
- Users should be able to save articles for later reading or add them to their favorites list.

2.5. Subscription.

- Users should be able to subscribe to daily or weekly newsletters with curated articles and news updates.

2.6. Author Management.

- Authors should be able to create and submit articles for review and publication.
- Authors should be able to view the status of their submitted articles and receive feedback from editors.

2.7. User Profile.

- Users should be able to view and edit their profile information, including their name, email address, and password.
- Users should be able to view their reading history, saved articles, and other personalized content.

2.8. Admin Management.

- Admin should be able to manage articles review and publication.

3. Functional requirements:

3.1. Filter article by category:

- Description/action: user can view articles related to a specific category he selected.
- Requirements/input: user select category.
- Source: User.
- Pre-condition: None
- Post-condition: Retrieve the articles from the database according to the selected category.
- Output: list of articles displayed according to the selected category.

3.2. Add to favorites:

- Description/action: The user can add a specific article to his favorites list.
- Requirements/input: Press on the favorite button.
- Source: The registered user
- Pre-condition: The user should be registered.
- Post-condition: Add the favorite article to the user's favorites list.
- Output: confirmation message to the user that the article has been added to the favorite list successfully.

3.3. share a specific article:

- Description/action: User can share a specific article on different platform.
- Requirements/input: Press on the share button.
- Source: User
- Pre-condition: Select on which platform he would like to share.
- Post-condition: Redirect the article to the selected platform and the article should

appear on the selected platform within a certain timeframe.

- Output: confirmation message to the user that the article has been shared successfully.

3.4. Publish a new article:

- Description/action: The author can publish a new article.
- Requirements/input: Request permission to publish the article.
- Source: The author
- Pre-condition: Logged in as an author.
- Post-condition: Redirect the article to the admin for approval.
- Output: pending for approval message.

3.5. Manage the users and author:

- Description/action: Manage user registration and authors applications for jobs.
- Requirements/input: Enter updated info for user or author after selecting them.

- Source: The administrator
- Pre-condition: Logged in as an administrator.
- Post-condition: The database is updated with the new information.
- Output: Confirmation message indicating whether the operation is successful.

3.6. Manage articles:

- Description/action: The admin can manage the articles whether he can edit or approve it.
- Requirements/input: Open the dashboard and select the article he wants to manage.
- Source: The administrator
- Pre-condition: Logged in as an administrator.
- Post-condition: The article list is updated and send the approval or denial to the author.
- Output: confirmation message that confirms that the action has been successfully performed.

3.7. Subscribe News:

- Description/action: The user can subscribe to the weekly or daily news.
- Requirements/input: The user's E-mail.
- Source: Registered User
- Pre-condition: Login as registered user.
- Post-condition: User's E-mail is added to the subscription list.
- Output: confirmation message that says that you have been added to the subscription list successfully.

4. Non-functional requirements.

4.1. Performance.

- The system must be able to handle a high volume of traffic and user requests without slowing down or crashing.
- The system must load articles and pages quickly, with minimal lag or delay.

4.2. Security.

- The system must have robust security measures in place to protect user data and prevent unauthorized access.
- The system must use encryption and other security protocols to protect sensitive information (such as user passwords and payment details).

4.3. Reliability.

- The system must be highly reliable, with minimal downtime or disruptions.
- The system must have backup and recovery mechanisms in place to prevent data loss in case of a system failure or outage.

4.4. Usability.

- The system must be easy to use and navigate, with a simple and intuitive interface.
- The system must be accessible to users with disabilities or special needs (such as screen readers for visually impaired users).

4.5. Compatibility.

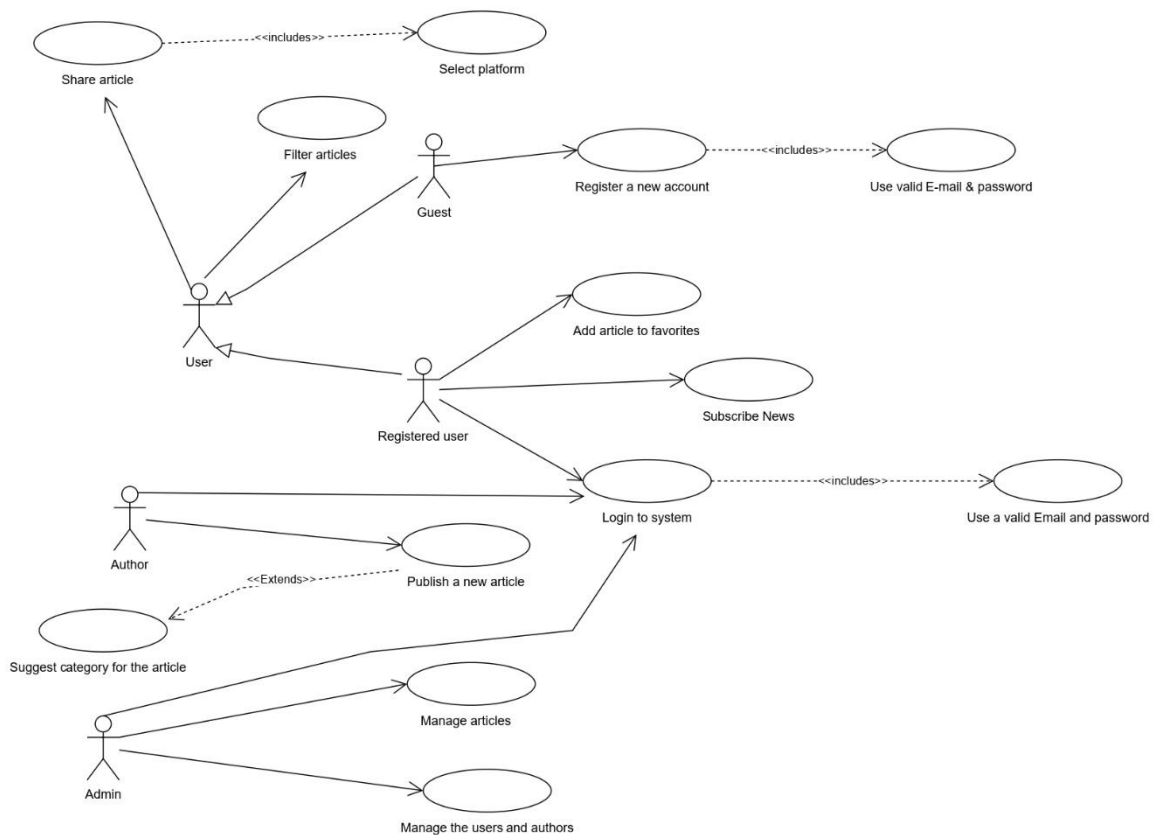
- The system must be compatible with a wide range of web browsers and devices (such as desktop computers, laptops, tablets, and smartphones).
- The system must be able to display and function correctly on different screen sizes and resolutions.

4.6. Scalability.

- The system must be designed to handle future growth and expansion, with the ability to scale up or down as needed.

- The system must be able to accommodate a growing user base and increasing amounts of content over time.

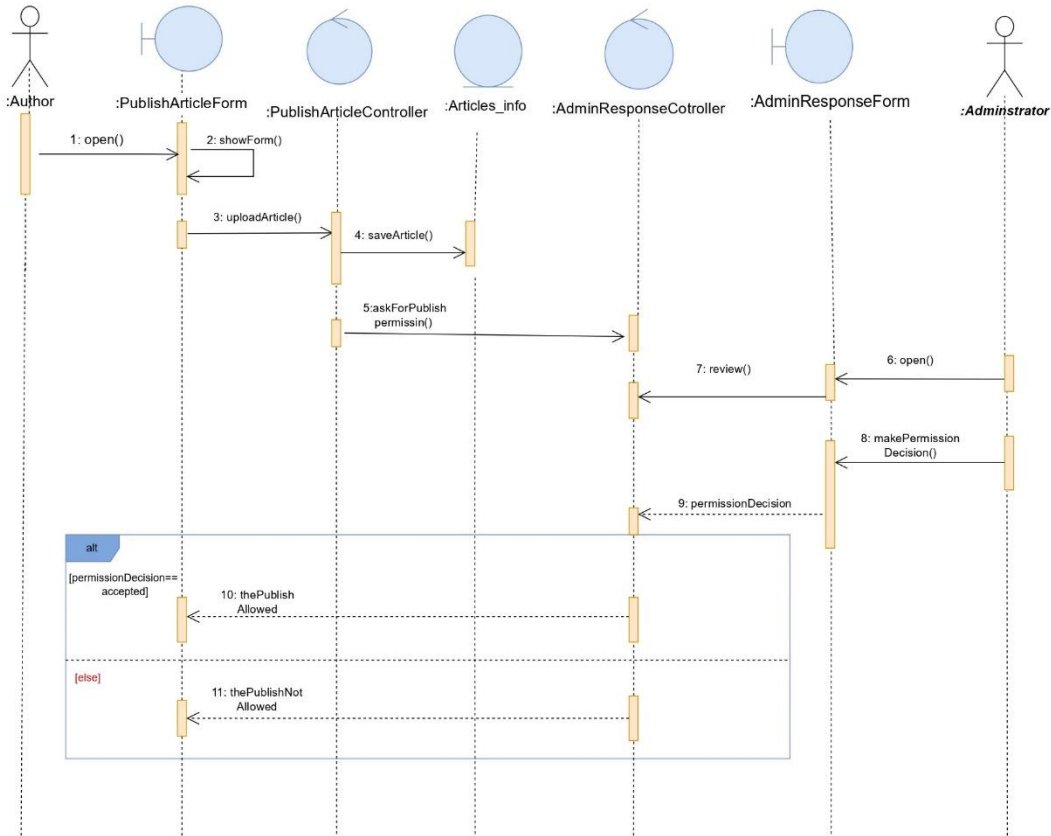
Use Case Diagram



[\[Get pdf here\]](#)

Sequence Diagram

For publish article use case



[\[Get pdf here\]](#)